GenCore version 5.1.4_p5_4578

OM nucleic - nucleic search, using sw model

Run on: March 15, 2003, 15:05:45 ; Search time 71.3792 Seconds
(without alignments)
10973.529 Million cell updates/sec

Title: US-08-978-217-1
Perfect score: 1116
Sequence: 1 ATGGCTGCAACCTGTGAGAT.....TTCTCCAGAGTCGGAACTGA 1116

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 501302 seqs, 350932545 residues

Total number of hits satisfying chosen parameters: 1002604

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1116	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
	2	1116	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
	3	1116	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
	4	1116	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
	5	1116	100.0	1917	9	US-10-025-380-1105	Sequence 1105, Ap
	6	1116	100.0	1917	10	US-09-922-217-1105	Sequence 1105, Ap
	7	1115.6	100.0	1996	10	US-09-925-301-207	Sequence 207, App
c	8	624.4	55.9	626	9	US-10-025-380-853	Sequence 853, App
c	9	624.4	55.9	626	10	US-09-922-217-853	Sequence 853, App
c	10	624.4	55.9	626	10	US-09-833-263-853	Sequence 853, App
c	11	561.4	50.3	563	9	US-10-025-380-944	Sequence 944, App
c	12	561.4	50.3	563	10	US-09-922-217-944	Sequence 944, App
c	13	561.4	50.3	563	10	US-09-833-263-944	Sequence 944, App
	14	499.4	44.7	502	9	US-10-076-622-282	Sequence 282, App
	15	499.4	44.7	502	10	US-09-604-287A-282	Sequence 282, App
	16	499.4	44.7	502	10	US-09-339-338-282	Sequence 282, App
	17	499.4	44.7	502	12	US-10-007-805-282	Sequence 282, App
c	18	455	40.8	499	10	US-09-998-598-2290	Sequence 2290, Ap
c	19	372	33.3	437	10	US-09-998-598-2216	Sequence 2216, Ap
	20	349	31.3	355	10	US-09-867-701-4818	Sequence 4818, Ap
	21	220	19.7	451	10	US-09-998-598-32	Sequence 32, Appl
c	22	175.6	15.7	440	10	US-09-960-352-11873	Sequence 11873, A
c	23	174	15.6	174	10	US-09-998-598-1740	Sequence 1740, Ap
c	24	173.8	15.6	852	9	US-09-232-880-44	Sequence 44, Appl
c	25	173.8	15.6	852	9	US-10-012-896-44	Sequence 44, Appl
c	26	173.8	15.6	852	9	US-09-895-793-44	Sequence 44, Appl
c	27	173.8	15.6	852	9	US-09-895-814-44	Sequence 44, Appl
c	28	173.8	15.6	852	10	US-09-759-143-44	Sequence 44, Appl
c	29	173.8	15.6	852	10	US-09-780-669-44	Sequence 44, Appl
c	30	173.8	15.6	852	10	US-09-030-606-44	Sequence 44, Appl
c	31	173.8	15.6	852	10	US-09-822-827-44	Sequence 44, Appl
c	32	173.8	15.6	852	10	US-09-115-453-44	Sequence 44, Appl
	33	173.4	15.5	1426	10	US-09-925-297-309	Sequence 309, App
	34	173.4	15.5	1429	10	US-09-764-864-320	Sequence 320, App
	35	163.8	14.7	5045	9	US-09-974-298-12	Sequence 12, Appl
c	36	117.6	10.5	593	10	US-09-864-761-14745	Sequence 14745, A
c	37	115.6	10.4	196	10	US-09-864-761-31274	Sequence 31274, A
	38	96.2	8.6	4190	10	US-09-962-832-111	Sequence 111, App
	39	78.2	7.0	1894	10	US-09-126-945B-1	Sequence 1, Appli
	40	78.2	7.0	1905	10	US-09-866-356-2	Sequence 2, Appli
	41	75.8	6.8	3591	9	US-10-098-841-45	Sequence 45, Appl
	42	75.8	6.8	3663	9	US-10-098-841-44	Sequence 44, Appl
	43	75	6.7	1894	10	US-09-841-963A-1	Sequence 1, Appli
	44	74.6	6.7	2256	9	US-10-098-841-317	Sequence 317, App
	45	72.2	6.5	507	9	US-10-015-219-489	Sequence 489, App

ALIGNMENTS

RESULT 1
US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101

Query Match 100.0%; Score 1116; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 6.3e-294;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy       1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 179

Qy      61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     180 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 239

Qy     121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     240 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 299

Qy     181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
```

```
Db    300 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 359

Qy    241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    360 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 419

Qy    301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    420 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 479

Qy    361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    480 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 539

Qy    421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    540 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 599

Qy    481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    600 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 659

Qy    541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    660 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 719

Qy    601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    720 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 779

Qy    661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    780 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 839

Qy    721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    840 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 899

Qy    781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    900 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 959

Qy    841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    960 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1019

Qy    901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1020 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1079

Qy    961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1080 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1139

Qy   1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1140 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1199

Qy   1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
          |||||||||||||||||||||||||||||||||||
Db   1200 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1235


RESULT 2
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
;  APPLICANT: Horrigan, Stephen
;  TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
;  TITLE OF INVENTION:  Sets
;  FILE REFERENCE: 689290-73
;  CURRENT APPLICATION NUMBER: US/09/964,824A
;  CURRENT FILING DATE:  2001-09-27
;  PRIOR APPLICATION NUMBER: US/60/236,033
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,032
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,028
;  PRIOR FILING DATE: 2000-09-28
;  NUMBER OF SEQ ID NOS: 583
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
;   LENGTH: 1915
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-964-824A-563

  Query Match             100.0%;  Score 1116;  DB 10;  Length 1915;
  Best Local Similarity   100.0%;  Pred. No. 6.3e-294;
  Matches 1116;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 179

Qy     61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    180 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 239

Qy    121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    240 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 299

Qy    181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    300 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 359

Qy    241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    360 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 419

Qy    301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    420 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 479

Qy    361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    480 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 539

Qy    421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    540 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 599

Qy    481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    600 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 659

Qy    541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    660 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 719

Qy    601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    720 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 779

Qy    661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    780 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 839

Qy    721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    840 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 899

Qy    781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
```

```
Db    900 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 959

Qy    841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
Db    960 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1019

Qy    901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
Db   1020 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1079

Qy    961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
Db   1080 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1139

Qy   1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
Db   1140 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1199

Qy   1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
Db   1200 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1235


RESULT 3
US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
;  APPLICANT: Horne, Darci T.
;  APPLICANT:  Vockley, Joseph G.
;  APPLICANT:  Scherf, Uwe
;  APPLICANT:  Gene Logic, Inc.
;  TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;  FILE REFERENCE: 44921-5028-WO
;  CURRENT APPLICATION NUMBER: US/09/880,107
;  CURRENT FILING DATE:  2001-06-14
;  PRIOR APPLICATION NUMBER: US 60/211,379
;  PRIOR FILING DATE: 2000-06-14
;  PRIOR APPLICATION NUMBER: US 60/237,054
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 3950
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
;   LENGTH: 1915
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

  Query Match            100.0%;  Score 1116;  DB 10;  Length 1915;
  Best Local Similarity   100.0%;  Pred. No. 6.3e-294;
  Matches 1116;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
Db    120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 179

Qy     61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
Db    180 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 239

Qy    121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
Db    240 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 299

Qy    181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
Db    300 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 359

Qy    241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
Db    360 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 419

Qy    301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
Db    420 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 479

Qy    361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
Db    480 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 539

Qy    421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
Db    540 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 599

Qy    481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
Db    600 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 659

Qy    541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
Db    660 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 719

Qy    601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
Db    720 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 779

Qy    661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
Db    780 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 839

Qy    721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
Db    840 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 899

Qy    781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
Db    900 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 959

Qy    841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
Db    960 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1019

Qy    901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
Db   1020 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1079

Qy    961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
Db   1080 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1139

Qy   1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
Db   1140 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1199

Qy   1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
Db   1200 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1235


RESULT 4
US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
;  APPLICANT: Augustus, Meena
;  TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
;  TITLE OF INVENTION:  Sets
;  FILE REFERENCE: 689290-72
;  CURRENT APPLICATION NUMBER: US/09/967,768A
;  CURRENT FILING DATE:  2001-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,109
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,034
```

```
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,111
;  PRIOR FILING DATE: 2000-09-28
;  NUMBER OF SEQ ID NOS: 325
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
;   LENGTH: 1915
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-967-768A-192

  Query Match            100.0%;  Score 1116;  DB 10;  Length 1915;
  Best Local Similarity  100.0%;  Pred. No. 6.3e-294;
  Matches 1116;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 179

Qy      61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     180 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 239

Qy     121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     240 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 299

Qy     181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     300 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 359

Qy     241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     360 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 419

Qy     301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     420 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 479

Qy     361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     480 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 539

Qy     421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     540 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 599

Qy     481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     600 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 659

Qy     541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     660 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 719

Qy     601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     720 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 779

Qy     661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     780 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 839

Qy     721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     840 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 899

Qy     781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     900 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 959

Qy     841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db     960 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1019

Qy     901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1020 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1079

Qy     961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1080 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1139

Qy    1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1140 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1199

Qy    1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
          ||||||||||||||||||||||||||||||||||||
Db    1200 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1235


RESULT 5
US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Lodes, Michael J.
;  APPLICANT:  Secrist, Heather
;  APPLICANT:  Benson, Darin R.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Smith, Carole L.
;  APPLICANT:  King, Gordon E.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  APPLICANT:  Skeiky, Yasir A. W.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Vedvick Thomas S.
;  APPLICANT:  Carter, Darrick
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C14
;  CURRENT APPLICATION NUMBER: US/10/025,380
;  CURRENT FILING DATE:  2001-12-19
;  NUMBER OF SEQ ID NOS: 1129
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1105
;   LENGTH: 1917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-025-380-1105

  Query Match            100.0%;  Score 1116;  DB 9;  Length 1917;
  Best Local Similarity  100.0%;  Pred. No. 6.3e-294;
  Matches 1116;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     122 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 181

Qy      61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     182 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 241

Qy     121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     242 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 301

Qy     181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     302 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 361
```

```
Qy     241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     362 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 421

Qy     301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     422 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 481

Qy     361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     482 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 541

Qy     421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     542 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 601

Qy     481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     602 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 661

Qy     541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     662 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 721

Qy     601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     722 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 781

Qy     661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     782 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 841

Qy     721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     842 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 901

Qy     781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     902 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 961

Qy     841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     962 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1021

Qy     901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1022 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1081

Qy     961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1082 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1141

Qy    1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1142 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1201

Qy    1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
           ||||||||||||||||||||||||||||||||||||
Db    1202 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1237


RESULT 6
US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Lodes, Michael J.
;  APPLICANT:  Secrist, Heather
;  APPLICANT:  Benson, Darin R.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Smith, Carole Lynn
;  APPLICANT:  King, Gordon E.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C13
;  CURRENT APPLICATION NUMBER: US/09/922,217
;  CURRENT FILING DATE:  2001-08-03
;  NUMBER OF SEQ ID NOS: 1124
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1105
;   LENGTH: 1917
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-922-217-1105

  Query Match             100.0%;  Score 1116;  DB 10;  Length 1917;
  Best Local Similarity   100.0%;  Pred. No. 6.3e-294;
  Matches 1116;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     122 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 181

Qy      61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     182 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 241

Qy     121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     242 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 301

Qy     181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     302 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 361

Qy     241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     362 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 421

Qy     301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     422 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 481

Qy     361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     482 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 541

Qy     421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     542 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 601

Qy     481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     602 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 661

Qy     541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     662 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 721

Qy     601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     722 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 781

Qy     661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     782 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 841

Qy     721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     842 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 901
```

```
Qy    781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    902 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 961

Qy    841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    962 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1021

Qy    901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1022 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1081

Qy    961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1082 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1141

Qy   1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1142 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1201

Qy   1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
          ||||||||||||||||||||||||||||||||||||
Db   1202 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1237
```

RESULT 7
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Query Match 100.0%; Score 1115.6; DB 10; Length 1996;
Best Local Similarity 99.9%; Pred. No. 8.3e-294;
Matches 1115; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy      1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    141 ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACAGC 200

Qy     61 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    201 TCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTG 260

Qy    121 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    261 GTACTGACCCTGAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 320

Qy    181 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    321 GGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGGTTCTGGACTGGATCAGCTACCAAGTG 380

Qy    241 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    381 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGATGTGACATGGATGGCGCC 440

Qy    301 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    441 ACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACCAA 500

Qy    361 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    501 CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 560

Qy    421 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    561 GAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 620

Qy    481 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    621 CAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCCTACCAC 680

Qy    541 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGG 600
          ||||||||||||||||||||||||||||||:||||||||||||||||||||||||||||||
Db    681 CCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCYGGCAGCTCTGACGTCTCCACCGCAGGG 740

Qy    601 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    741 ACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGAT 800

Qy    661 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    801 CCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCC 860

Qy    721 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    861 AAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGT 920

Qy    781 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    921 CTCGAGGGCAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGG 980

Qy    841 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    981 GACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAA 1040

Qy    901 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1041 GGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAG 1100

Qy    961 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1020
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1101 AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG 1160

Qy   1021 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1080
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1161 ATCCTGGAACGGGTGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGC 1220

Qy   1081 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1116
          ||||||||||||||||||||||||||||||||||||
Db   1221 TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACTGA 1256
```

RESULT 8
US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.

```
;  APPLICANT:  Skeiky, Yasir A. W.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Vedvick Thomas S.
;  APPLICANT:  Carter, Darrick
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C14
;  CURRENT APPLICATION NUMBER: US/10/025,380
;  CURRENT FILING DATE:  2001-12-19
;  NUMBER OF SEQ ID NOS: 1129
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 853
;   LENGTH: 626
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-025-380-853

  Query Match             55.9%;  Score 624.4;  DB 9;  Length 626;
  Best Local Similarity   99.8%;  Pred. No. 2.4e-160;
  Matches  625;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    155 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 214
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    626 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 567

Qy    215 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 274
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    566 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 507

Qy    275 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 334
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    506 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 447

Qy    335 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 394
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    446 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 387

Qy    395 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 454
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    386 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 327

Qy    455 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 514
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    326 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 267

Qy    515 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTG 574
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db    266 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCG 207

Qy    575 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 634
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    206 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 147

Qy    635 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 694
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    146 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 87

Qy    695 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 754
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     86 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 27

Qy    755 AGCTGAGCAAAGAGTACTGGGACTGT 780
          |||||||||||||||||||||||||
Db     26 AGCTGAGCAAAGAGTACTGGGACTGT 1


RESULT 9
US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Lodes, Michael J.
;  APPLICANT:  Secrist, Heather
;  APPLICANT:  Benson, Darin R.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Smith, Carole Lynn
;  APPLICANT:  King, Gordon E.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C13
;  CURRENT APPLICATION NUMBER: US/09/922,217
;  CURRENT FILING DATE:  2001-08-03
;  NUMBER OF SEQ ID NOS: 1124
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 853
;   LENGTH: 626
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-922-217-853

  Query Match             55.9%;  Score 624.4;  DB 10;  Length 626;
  Best Local Similarity   99.8%;  Pred. No. 2.4e-160;
  Matches  625;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    155 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 214
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    626 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 567

Qy    215 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 274
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    566 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 507

Qy    275 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 334
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    506 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 447

Qy    335 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 394
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    446 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 387

Qy    395 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 454
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    386 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 327

Qy    455 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 514
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    326 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 267

Qy    515 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTG 574
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db    266 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCG 207

Qy    575 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 634
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    206 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 147

Qy    635 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 694
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    146 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 87

Qy    695 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 754
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     86 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 27

Qy    755 AGCTGAGCAAAGAGTACTGGGACTGT 780
          |||||||||||||||||||||||||
Db     26 AGCTGAGCAAAGAGTACTGGGACTGT 1


RESULT 10
```

```
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Meagher, Madeleine J.
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C12
;  CURRENT APPLICATION NUMBER: US/09/833,263
;  CURRENT FILING DATE:  2001-04-10
;  NUMBER OF SEQ ID NOS: 1093
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 853
;   LENGTH: 626
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-833-263-853

  Query Match             55.9%;  Score 624.4;  DB 10;  Length 626;
  Best Local Similarity   99.8%;  Pred. No. 2.4e-160;
  Matches  625;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    155 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 214
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    626 AGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGACGCAGG 567

Qy    215 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 274
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    566 TTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACT 507

Qy    275 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 334
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    506 TCTCACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC 447

Qy    335 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 394
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    446 TGGTCTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCT 387

Qy    395 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 454
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    386 CTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGG 327

Qy    455 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 514
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    326 AGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACG 267

Qy    515 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTG 574
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db.   266 ACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCG 207

Qy    575 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 634
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    206 GCAGCTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACT 147

Qy    635 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 694
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db.   146 CCGGTGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTT 87

Qy    695 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 754
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     86 TTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAA 27

Qy    755 AGCTGAGCAAAGAGTACTGGGACTGT 780
          |||||||||||||||||||||||||
Db     26 AGCTGAGCAAAGAGTACTGGGACTGT 1


RESULT 11
US-10-025-380-944/c
; Sequence 944, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Lodes, Michael J.
;  APPLICANT:  Secrist, Heather
;  APPLICANT:  Benson, Darin R.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Smith, Carole L.
;  APPLICANT:  King, Gordon E.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  APPLICANT:  Skeiky, Yasir A. W.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Vedvick Thomas S.
;  APPLICANT:  Carter, Darrick
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C14
;  CURRENT APPLICATION NUMBER: US/10/025,380
;  CURRENT FILING DATE:  2001-12-19
;  NUMBER OF SEQ ID NOS: 1129
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 944
;   LENGTH: 563
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-025-380-944

  Query Match             50.3%;  Score 561.4;  DB 9;  Length 563;
  Best Local Similarity   99.8%;  Pred. No. 3.1e-143;
  Matches  562;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    219 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 278
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    563 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 504

Qy    279 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 338
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    503 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 444

Qy    339 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 398
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    443 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 384

Qy    399 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 458
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    383 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 324

Qy    459 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 518
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    323 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 264

Qy    519 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAG 578
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Db    263 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCGGCAG 204

Qy    579 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 638
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    203 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 144

Qy.   639 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 698
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    143 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 84

Qy    699 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 758
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     83 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 24

Qy    759 GAGCAAAGAGTACTGGGACTGTC 781
          |||||||||||||||||||||||
```

```
Db     23 GAGCAAAGAGTACTGGGACTGTC 1


RESULT 12
US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Lodes, Michael J.
;  APPLICANT:  Secrist, Heather
;  APPLICANT:  Benson, Darin R.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Smith, Carole Lynn
;  APPLICANT:  King, Gordon E.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
;  TITLE OF INVENTION:  OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C13
;  CURRENT APPLICATION NUMBER: US/09/922,217
;  CURRENT FILING DATE:  2001-08-03
;  NUMBER OF SEQ ID NOS: 1124
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 944
;   LENGTH: 563
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-922-217-944

  Query Match             50.3%;  Score 561.4;  DB 10;  Length 563;
  Best Local Similarity   99.8%;  Pred. No. 3.1e-143;
  Matches  562;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    219 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 278
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    563 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 504

Qy    279 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 338
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    503 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 444

Qy    339 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 398
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    443 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 384

Qy    399 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 458
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    383 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 324

Qy    459 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 518
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    323 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 264

Qy    519 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAG 578
          |||||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db    263 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCGGCAG 204

Qy    579 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 638
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    203 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 144

Qy    639 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 698
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    143 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 84

Qy    699 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 758
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     83 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 24

Qy    759 GAGCAAAGAGTACTGGGACTGTC 781
          |||||||||||||||||||||||
Db     23 GAGCAAAGAGTACTGGGACTGTC 1


RESULT 13
US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Aijun
;  APPLICANT:  Clapper, Jonathan D.
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Meagher, Madeleine J.
;  TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
;  FILE REFERENCE: 210121.471C12
;  CURRENT APPLICATION NUMBER: US/09/833,263
;  CURRENT FILING DATE:  2001-04-10
;  NUMBER OF SEQ ID NOS: 1093
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 944
;   LENGTH: 563
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-833-263-944

  Query Match             50.3%;  Score 561.4;  DB 10;  Length 563;
  Best Local Similarity   99.8%;  Pred. No. 3.1e-143;
  Matches  562;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    219 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 278
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    563 GGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTC 504

Qy    279 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 338
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    503 ACGATGTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGT 444

Qy    339 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 398
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    443 CTTTGGGCCTCTGGGGGACCAACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTC 384

Qy    399 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 458
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    383 TGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAAGGATGGCATGGCCTTCCAGGAGGC 324

Qy    459 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 518
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    323 CCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGCTGGACGACGG 264

Qy    519 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCTGGCAG 578
          |||||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db    263 TCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCGGCAG 204

Qy    579 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 638
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    203 CTCTGACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGG 144

Qy    639 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 698
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    143 TGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCG 84

Qy    699 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 758
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     83 TGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGCGGAAACGAGGCCGGCCCCGAAAGCT 24

Qy    759 GAGCAAAGAGTACTGGGACTGTC 781
          |||||||||||||||||||||||
Db     23 GAGCAAAGAGTACTGGGACTGTC 1


RESULT 14
```

```
US-10-076-622-282
; Sequence 282, Application US/10076622
; Publication No. US20030023036A1
; GENERAL INFORMATION:
;  APPLICANT: Houghton, Raymond L.
;  APPLICANT:  Sleath, Paul R.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.470C11
;  CURRENT APPLICATION NUMBER: US/10/076,622
;  CURRENT FILING DATE:  2002-02-13
;  NUMBER OF SEQ ID NOS: 627
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 282
;   LENGTH: 502
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-076-622-282

  Query Match             44.7%;  Score 499.4;  DB 9;  Length 502;
  Best Local Similarity   99.8%;  Pred. No. 2.2e-126;
  Matches  500;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    549 CTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGGACTGGTGC 608
          ||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db      2 CTGTGGCGCAGGAGCCCCCTCCCCCGGCAGCTCTGACGTCTCCACCGCAGGGACTGGTGC 61

Qy    609 TTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGATCCCACTGA 668
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     62 TTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGATCCCACTGA 121

Qy    669 TGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGG 728
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    122 TGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGG 181

Qy    729 GAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGG 788
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    182 GAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGG 241

Qy    789 CAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGGGACATCCT 848
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    242 CAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGGGACATCCT 301

Qy    849 CATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTT 908
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    302 CATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTT 361

Qy    909 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAGAACAGCAA 968
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    362 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAGAACAGCAA 421

Qy    969 CATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 1028
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    422 CATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 481

Qy   1029 ACGGGTGGATGGCCGGCGACT 1049
          |||||||||||||||||||||
Db    482 ACGGGTGGATGGCCGGCGACT 502


RESULT 15
US-09-604-287A-282
; Sequence 282, Application US/09604287A
; Patent No. US20020064872A1
; GENERAL INFORMATION:
;  APPLICANT: Jiang, Yuqiu
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Mitcham, Jennifer L.
;  APPLICANT:  Xu, Jiangchun
;  APPLICANT:  Harlocker, Susan L.
;  APPLICANT:  Hepler, William T.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.470C7
;  CURRENT APPLICATION NUMBER: US/09/604,287A
;  CURRENT FILING DATE:  2000-06-22
;  NUMBER OF SEQ ID NOS: 489
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 282
;   LENGTH: 502
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-604-287A-282

  Query Match             44.7%;  Score 499.4;  DB 10;  Length 502;
  Best Local Similarity   99.8%;  Pred. No. 2.2e-126;
  Matches  500;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    549 CTGTGGCGCAGGAGCCCCCTCCCCTGGCAGCTCTGACGTCTCCACCGCAGGGACTGGTGC 608
          ||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db      2 CTGTGGCGCAGGAGCCCCCTCCCCCGGCAGCTCTGACGTCTCCACCGCAGGGACTGGTGC 61

Qy    609 TTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGATCCCACTGA 668
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     62 TTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGGATCCCACTGA 121

Qy    669 TGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGG 728
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    122 TGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGG 181

Qy    729 GAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGG 788
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    182 GAAGCGGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGG 241

Qy    789 CAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGGGACATCCT 848
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    242 CAAGAAGAGCAAGCACGCGCCCAGAGGCACCCACCTGTGGGAGTTCATCCGGGACATCCT 301

Qy    849 CATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTT 908
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    302 CATCCACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAATCGGCATGAAGGCGTCTT 361

Qy    909 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAGAACAGCAA 968
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    362 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAAGAACAGCAA 421

Qy    969 CATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 1028
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    422 CATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 481

Qy   1029 ACGGGTGGATGGCCGGCGACT 1049
          |||||||||||||||||||||
Db    482 ACGGGTGGATGGCCGGCGACT 502


Search completed: March 15, 2003, 23:29:28
Job time : 83.3792 secs
```